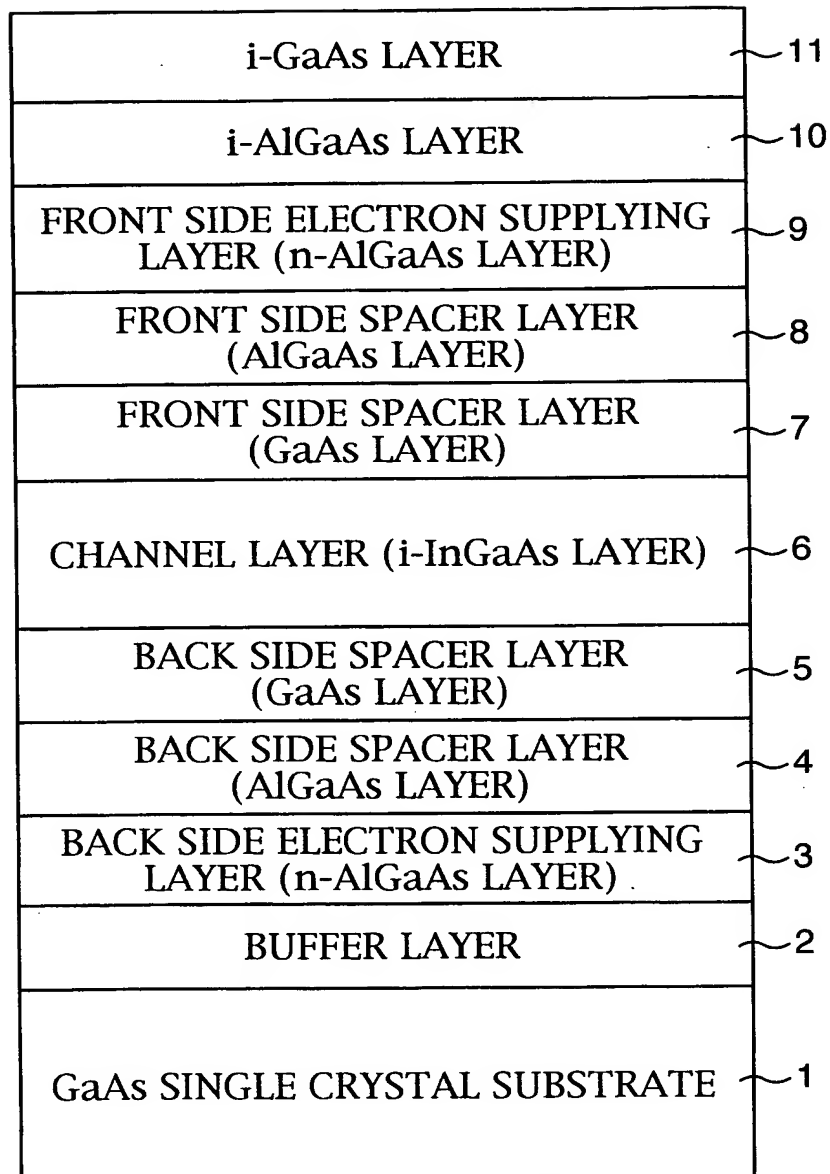


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FIG. 1



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FIG. 2

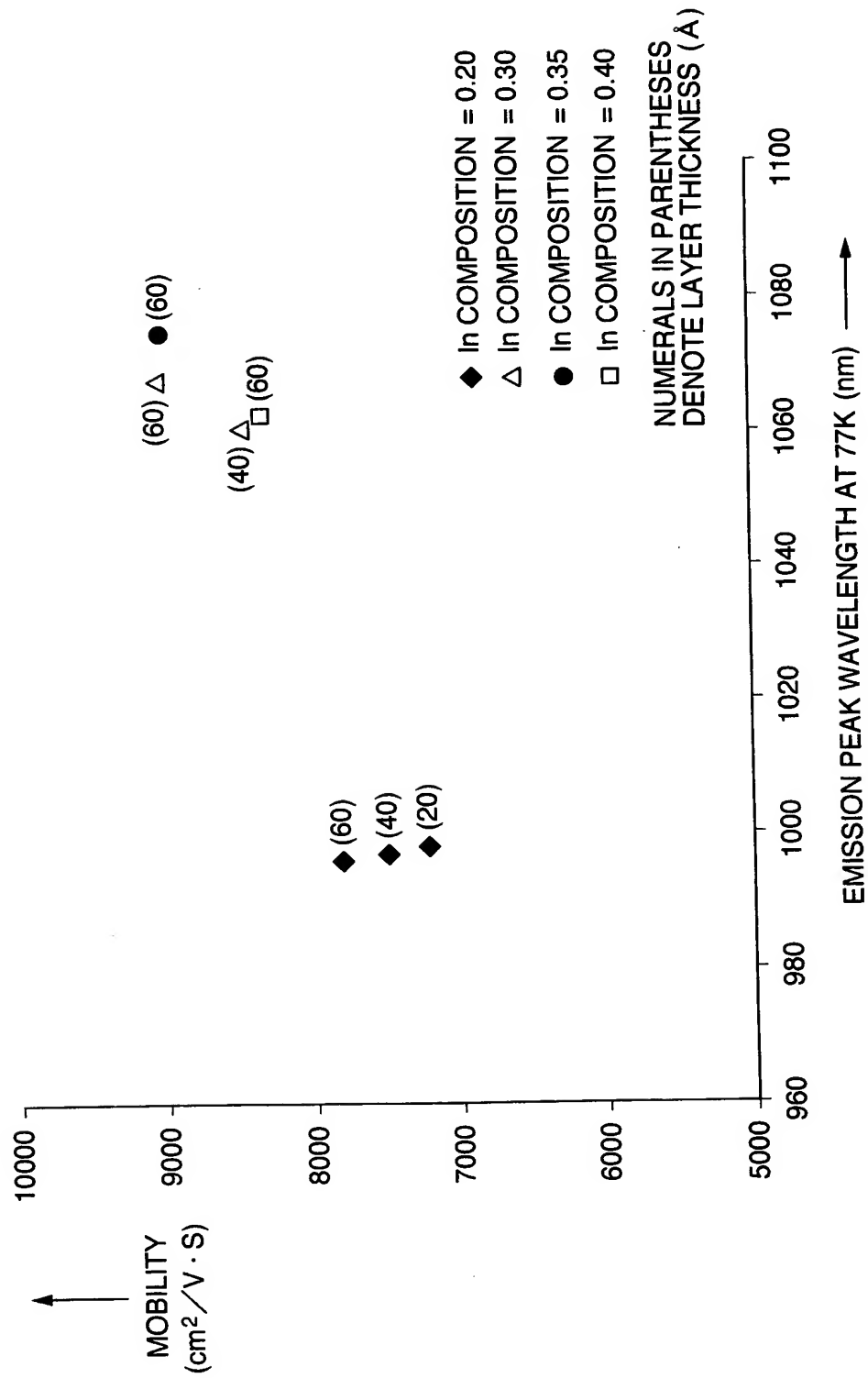


FIG. 3

i- GaAs 20nm	~ 24
i- Al <sub>0.22</sub> Ga <sub>0.78</sub> As 3nm	~ 23
n- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 10nm 3E18/cm <sup>3</sup>	~ 22
i- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 3nm	~ 21
i-GaAs 6nm	~ 20
i- In <sub>0.30</sub> Ga <sub>0.70</sub> As 7.5nm	~ 19
i-GaAs 6nm	~ 18
i- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 3nm	~ 17
n- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 4nm 3E18/cm <sup>3</sup>	~ 16
i-Al <sub>0.25</sub> Ga <sub>0.75</sub> As 200nm	~ 15
i-GaAs 250nm	~ 14
i-Al <sub>0.25</sub> Ga <sub>0.75</sub> As 250nm	~ 13
i-GaAs 200nm	~ 12
GaAs SUBSTRATE	~ 11

FIG. 4

i- GaAs 20nm	24
i- Al <sub>0.22</sub> Ga <sub>0.78</sub> As 3nm	23
n- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 10nm 3E18/cm <sup>3</sup>	22
i- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 3nm	21
i-GaAs 6nm	20
i- In <sub>0.85</sub> Ga <sub>0.65</sub> As 5.5nm	31
i-GaAs 6nm	18
i- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 3nm	17
n- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 4nm 3E18/cm <sup>3</sup>	16
i-Al <sub>0.25</sub> Ga <sub>0.75</sub> As 200nm	15
i-GaAs 250nm	14
i-Al <sub>0.25</sub> Ga <sub>0.75</sub> As 250nm	13
i-GaAs 200nm	12
GaAs SUBSTRATE	11

FIG. 5

i- GaAs 20nm	~ 24
i- Al <sub>0.22</sub> Ga <sub>0.78</sub> As 7nm	~ 23A
n- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 10nm 3E18/cm <sup>3</sup>	~ 22
i- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 3nm	~ 21
i-GaAs 2nm	~ 20A
i- In <sub>0.20</sub> Ga <sub>0.80</sub> As 13.5nm	~ 19A
i-GaAs 2nm	~ 18A
i- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 3nm	~ 17
n- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 4nm 3E18/cm <sup>3</sup>	~ 16
i-Al <sub>0.25</sub> Ga <sub>0.75</sub> As 200nm	~ 15
i-GaAs 250nm	~ 14
i-Al <sub>0.25</sub> Ga <sub>0.75</sub> As 250nm	~ 13
i-GaAs 200nm	~ 12
GaAs SUBSTRATE	~ 11

FIG. 6

i- GaAs 20nm	24
i- Al <sub>0.22</sub> Ga <sub>0.78</sub> As 7nm	23A
n- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 10nm 3E18/cm <sup>3</sup>	22
i- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 3nm	21
i-GaAs 6nm	20
i- In <sub>0.20</sub> Ga <sub>0.80</sub> As 13.5nm	31A
i-GaAs 6nm	18
i- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 3nm	17
n- Al <sub>0.24</sub> Ga <sub>0.76</sub> As 4nm 3E18/cm <sup>3</sup>	16
i-Al <sub>0.25</sub> Ga <sub>0.75</sub> As 200nm	15
i-GaAs 250nm	14
i-Al <sub>0.25</sub> Ga <sub>0.75</sub> As 250nm	13
i-GaAs 200nm	12
GaAs SUBSTRATE	11